

WA 6906

Princal EPA Data

6-12-84

66

6-12-84

Rutkowski

Fall 83

	RBT	12-20-83	2	3	1-11-84	2	3	
metals	As	LO.005	LO.005	LO.005	LO.005	0.014	LO.005	0.021
ref	Ba	LO.10	LO.10	LO.10	LO.1	0.1	LO.10	
	Cd	LO.002	LO.002	LO.002	LO.002	LO.002	LO.0001	
	Cr	LO.01	LO.005	LO.01	LO.01	LO.005	LO.01	LO.001
	Pb	LO.010	LO.005	LO.010	LO.010	LO.005	LO.010	
	Hg	LO.001	LO.001	LO.001	LO.001	LO.001	LO.001	
	Se	LO.005	LO.005	LO.005	LO.005	LO.005	LO.005	
	Ag	LO.01	LO.01	LO.01	LO.01	LO.01	LO.01	
	Cu	LO.01	LO.005	LO.005	0.050	0.022	LO.005	
	Phenol(T)	ND	ND	LO.005			LO.005	
	PH	ND						
	SC	ND						
	Dioxin	LO.01	LO.5	0.13	LO.01	LO.1	0.86	
	Naphthalene	LO.10	LO.1	LO.1	LO.1	LO.5	LO.1	
	TOL						LO	

Sampling Dates

1 12-20-83 # 1-11-84

2 03-26-84

3 06-15-84

Myket

Rutkowski

Fall 83

Ryb



LETTER OF TRANSMITTAL

RECEIVED
AUG 17 1984

10



PACIFIC WOOD TREATING CORPORATION

TECHNICAL OPERATIONS SECTION

TO ENVIRONMENTAL PROTECTION AGENCY, REGION X
1200 SIXTH AVE.
SEATTLE, WA. 98101

DATE 8-14-84
RE RBT SITE-
LABORATORY REPORTS

ATTENTION MICHAEL J. BROWN

TRANSMITTED

☐ HEREWITH ☒ ENCLOSED ☐ UNDER SEPARATE COVER
VIA _____
☒ BY MAIL ☐ BY MESSENGER ☐ CERTIFIED MAIL
RETURN RECEIPT

THE FOLLOWING MATERIAL

LAUCKS LABORATORY REPORTS OF QUARTERLY WATER SAMPLING OF DEC. 1983,
MARCH 1984 AND JUNE 1984

REMARKS

AS REQUESTED BY MICHAEL BROWN TELEPHONE REQUEST OF 8-14-84

COPY TO _____

BY

Vince McQuiggin

VINCE McQUIGGIN
PROJECT COORDINATOR

COPY



**PACIFIC WOOD TREATING
CORPORATION**

February 08, 1984

Mr. Eric Egbers
Department of Ecology
State of Washington
7272 Cleanwater Lane, LU11
Olympia, WA 98504

SUBJECT: Laboratory Results
RBT Site
DE83-284

Dear Mr. Egbers,

Pursuant to our phone conversation of last Friday, February 3, please find enclosed copies of Laucks Testing Laboratories test results No. 83121 and 83265. As discussed, we feel that, as a result of these test results, we should be allowed to continue discharging the intermittent small flow of the toe drain to the existing drainage ditch as outlined in our Closure Plan. *

If you need additional information, please don't hesitate to contact me.

Sincerely,

Vince McQuiggin
Project Coordinator

Mark Moothart
Pat Wicks
Randy Sweet

vFM/srr
Enclosure

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services

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FEB 06 1984
P W T.



Certificate

CLIENT Pacific Wood Treating
111 W. Division St.
Ridgefield, WA 98642
ATTN: Vince McQuiggin

LABORATORY NO 83121

DATE Feb. 3, 1984

REPORT ON WATER

#1

SAMPLE
IDENTIFICATION

Submitted 12/20/83 and marked as shown below:

TESTS PERFORMED
AND RESULTS:

1) LS-1 Soil Lysimetre RBT 12/14 11:05 J. Maul
2) LS-3 Field Filtered RBT 12/14 11:05 JJM, WRS
3) Rutkowski RBT 12/14 11:50
4) Ridgefield WA RYF 12/14 10:05 J. Maul Filtered
5) T.D. Sump Field Filt. RBT 12/14 12:43 JJM -

parts per billion (ug/L)

	1	2	3	4	5
Pentachlorophenol	<u>0.10</u>	<u>0.53</u>	L/0.01	✓L/0.01	<u>0.56</u>
Napthalene		*	L/1.	✓L/1.	<u>10.</u> TD

parts per million (mg/L)

Chromium	0.006	0.006	L/0.01	✓L/0.01	L/0.01
Copper	0.005	L/0.005	0.013	✓L/0.005	L/0.005
Arsenic	L/0.005	L/0.005	L/0.005	✓L/0.005	0.009
Cadmium	L/0.002	L/0.002	L/0.002	✓L/0.002	L/0.002
Lead	*	*	L/0.010	✓L/0.010	L/0.010
Mercury	*	*	L/0.001	✓L/0.001	L/0.001
Barium	*	*	L/0.10	✓L/0.10	0.10
Selenium	*	*	L/0.005	✓L/0.005	L/0.005
Silver	*	*	L/0.01	✓L/0.01	L/0.01

Key

L/ indicates "less than"

*Insufficient sample available to perform analysis.

Laucks Testing Laboratories, Inc.

J.M. Owens
J. M. Owens



JMO:bg

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Testing Laboratories, Inc.

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JAN 26 1984

P. W. T.



Certificate

CLIENT Pacific Wood Treating
111 W. Division St.
Ridgefield, WA 98642
ATTN: Vince McQuiggin

LABORATORY NO 83265

DATE Jan. 24, 1984

PO# 43061

REPORT ON WATER

SAMPLE
IDENTIFICATION

Submitted 1/11/84 and marked as shown below:

TESTS PERFORMED
AND RESULTS:

1) TD	Ridge	1/10	1120
2) Muffet	Ridgefield	<u>1/10</u>	1051
3) Falls	Ridgefield	<u>1/10</u>	1006

parts per billion (ug/L)

Pentachlorophenol
Naphthalene

	1	2	3
TD	<u>1.27</u>	L/0.01	L/0.01
	<u>5.</u>	L/1.	L/1.

parts per million (mg/L)

- Chromium
- Copper
- Arsenic
- Cadmium
- Lead
- Mercury
- Barium
- Selenium
- Silver

L/0.01	✓ L/0.01	✓ L/0.01
L/0.005	✓ L/0.005	0.050
L/0.005	✓ L/0.005	✓ L/0.005
L/0.002	✓ L/0.002	✓ L/0.002
L/0.010	✓ L/0.010	✓ L/0.010
L/0.001	✓ L/0.001	✓ L/0.001
L/0.1	✓ L/0.1	✓ L/0.1
L/0.005	✓ L/0.005	✓ L/0.005
L/0.01	✓ L/0.01	✓ L/0.01

Key

L/ indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

Mike Nelson
Mike Nelson

MN:bg



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PACIFIC WOOD TREATING
CORPORATION

CEB
TRANSMITTAL

COPY

TO: DEPARTMENT OF ECOLOGY
State of Washington
7272 Cleanwater Lane, LU11
Olympia, Washington 98504

DATE 4/24/84

ATTN: Mr. Eric B. Egbers
Regional Inspector

RBT Site - 2nd
Quarter Test Results

TRANSMITTED: ☐ Herewith ☒ Enclosed ☐ Under Separate Cover
☒ By Mail ☐ By Messenger

THE FOLLOWING MATERIAL:

Laucks Laboratory Report of 4/20/84, No. 84095
Laucks Memo-Letter of 4/20/84

REMARKS:

BY *Vince McQuiggin*
Vince McQuiggin
Projects Coordinator

LAUCKS TESTING LABORATORIES, INC.

940 South Harney • Seattle, Washington 98108 • (206) 767-5060

MEMORANDUM

TO Pacific Wood Treating
111 W. Division St.
Ridgefield, WA 98642
ATTN: Vince McQuiggin

DATE 4/20/84


SUBJECT Lab #84095
Naphthalene analysis

Dear Vince:

In reviewing the enclosed report, you will note that the lower limit of detection (LLD) for naphthalene is 5. parts per billion, where the LLD in the last report was 1. ppb.

Although we strive to give you the best possible LLD for your purposes, and to be consistent from report to report, it is not always possible to achieve identical results between different samples. In this case, there were background interferences in the samples which made the 1 ppb LLD impossible. If you have further questions as you review this, please feel free to contact me and I can put you in touch with the analyst who would be able to offer you a fuller explanation.

Very truly yours,


Barbara Gleason
Client Services

enc.

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT Pacific Wood Treating
111 W. Division St.
Ridgefield, WA 98642
ATTN: Vince McQuiggin

LABORATORY NO 84095

DATE April 20, 1984

REPORT ON WATER

#2

SAMPLE
IDENTIFICATION

Submitted 3/26/84 and identified as shown below:

TESTS PERFORMED
AND RESULTS

1) RUT	PWT/RBT	<u>3/23</u>	JM	1350
2) MUF	PWT/RBT	<u>3/23</u>	JM	1350
3) RYF	PWT/RBT	3/23	JM	1425
4) Falls	PWT/RBT	3/23	JM	1240
5) TD	PWT/RBT	3/23	JM	1140 Toe Drain Sump
6) LS-1	PWT/RBT	3/23	JM	1110
7) LS-2	PWT/RBT	3/23	JM	1030
8) LS-3	PWT/RBT	3/23	JM	1050

pH, glass electrode at 25°C
Specific Conductance,
micromhos/cm at 25°C

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
7.6	✓7.6	8.1	7.7
280.	✓250.	210.	210.

parts per million (mg/L)

Chromium	✓ L/0.005	✓ L/0.005	✓ L/0.005	✓ L/0.005
Copper	✓ L/0.005	✓ L/0.005	L/0.005	✓ 0.022
Arsenic	✓ L/0.005	✓ L/0.005	✓ L/0.005	✓ 0.014
Cadmium	✓ L/0.002	✓ L/0.002	✓ L/0.002	L/0.002
Lead	✓ L/0.005	✓ L/0.005	✓ L/0.005	✓ L/0.005
Mercury	✓ L/0.001	✓ L/0.001	✓ L/0.001	✓ L/0.001
Barium	✓ L/0.1	✓ 0.1	✓ L/0.1	✓ 0.1
Selenium	✓ L/0.005	✓ L/0.005	✓ L/0.005	✓ L/0.005
Silver	✓ L/0.01	✓ L/0.01	✓ L/0.01	✓ L/0.01

parts per billion (ug/L)

Naphthalene	L/5.	✓ L/5.	L/5.	L/5.
Pentachlorophenol	L/0.1	✓ L/0.1	L/0.1	L/0.1



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Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206)767-5060



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Chemistry, Microbiology, and Technical Services

PAGE NO 2

Pacific Wood Treating

LABORATORY NO 84095

	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
pH, glass electrode at 25°C	6.4	7.7	8.2	8.6
Specific Conductance, micromhos/cm at 25°C	410.	110.	780.	450.

parts per million (mg/L)

Chromium	L/0.005	L/0.005	L/0.005	L/0.005
Copper	L/0.005	0.005	0.005	0.005
Arsenic	0.008	L/0.005	L/0.005	L/0.005
Cadmium	L/0.002	0.002	L/0.002	L/0.002
Lead	L/0.005	L/0.005	L/0.005	L/0.005
Mercury	L/0.001	L/0.001	L/0.001	*
Barium	0.1	L/0.1	0.1	L/0.1
Selenium	L/0.005	L/0.005	L/0.005	L/0.005
Silver	L/0.01	L/0.01	L/0.01	L/0.01

parts per billion (ug/L)

Naphthalene	TD L/5. 2.7	L/5.	L/5.	L/5.
Pentachlorophenol		1.4	L/0.1	0.3

Key

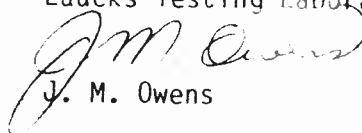
L/ indicates "less than"

*Insufficient sample to perform analysis.

Note: Insufficient sample was provided to perform the total phenol analysis requested on 4/3/84.

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JM0:bg



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Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



Invoice

Pacific Wood Treating
111 W. Division St.
Ridgefield, WA 98642
ATTN: Vince McQuiggin

INVOICE NO 84095
DATE April 20, 1984
ORDER NO

TO PROFESSIONAL SERVICES

Analysis of WATER ----- 52,038.00

Net 30 Days

The liability of these laboratories for the services covered by this invoice shall in no event exceed the amount of this invoice.
Sample discarded after analysis unless otherwise requested.



LETTER OF TRANSMITTAL



PACIFIC WOOD TREATING CORPORATION

TO DEPARTMENT OF ECOLOGY
7272 Cleanwater Lane, LU11
Olympia, Washington 98504

DATE 7-25-84
RE RBT Site
DE83-284
DE83-468

ATTENTION ERIC B. EGBERS, REGIONAL INSPECTOR

TRANSMITTED

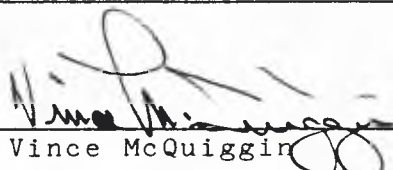
☐ HEREWITH ☒ ENCLOSED ☐ UNDER SEPARATE COVER
VIA _____
☐ BY MAIL ☐ BY MESSENGER ☒ CERTIFIED MAIL
RETURN RECEIPT

THE FOLLOWING MATERIAL

Third Quarter Water Analysis Report by Laucks Testing Laboratories, Inc.

REMARKS

COPY TO _____

BY 
Vince McQuiggin
Project Coordinator

Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services

RECEIVED
JUL 09 1984
P. W. T.



Certificate

CLIENT Pacific Wood Treating
P. O. Box 518
Ridgefield, WA 98642-
ATTN: Vince McQuiggin

LABORATORY NO 85070

DATE July 4, 1984

PO# 44147

REPORT ON WATER

SAMPLE
IDENTIFICATION

Submitted on 6/15/84 and identified as shown below:

TESTS PERFORMED
AND RESULTS

1) Falls 6/12 10:50
2) Muffet 6/12 14:15
3) Rutkowski 6/12 12:50
4) RYF 6/12 15:50
5) LS 1 PWT/RBT 6/12 10:30 JJM
6) LS 2 PWT/RBT 6/12 10:50 JJM
7) LS 3 PWT/RBT 6/12 11:22 JJM

#3

pH, glass electrode at 25°C
Specific Conductance,
micromhos/cm at 25°C

1	2	3	4
7.1	7.1	7.3	7.3
160.	190.	200.	160.

parts per million (mg/L)

Arsenic	L/0.005	✓ L/0.005	✓ L/0.005	L/0.005
Barium	L/0.10	✓ L/0.10	✓ L/0.10	L/0.10
Cadmium	L/0.002	✓ L/0.002	✓ L/0.002	L/0.002
Chromium	L/0.01	✓ L/0.01	✓ L/0.01	L/0.01
Lead	L/0.010	✓ L/0.010	✓ L/0.010	L/0.010
Mercury	L/0.001	✓ L/0.001	✓ L/0.001	L/0.001
Selenium	L/0.005	✓ L/0.005	✓ L/0.005	L/0.005
Silver	L/0.01	✓ L/0.01	✓ L/0.01	L/0.01
Copper	0.005	✓ L/0.005	✓ L/0.005	0.006
Total Phenols	L/0.005	0.013	✓ L/0.005	L/0.005

parts per billion (ug/L)

Pentachlorophenol
Naphthalene

0.86	0.43	0.13	1.1
L/1.	L/1.	L/1.	L/1.



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Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

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Pacific Wood Treating

PAGE NO 2

LABORATORY NO 85070

parts per million (mg/L)

5*

6*

7*

Arsenic

L/0.005

L/0.005

L/0.005

parts per billion (ug/L)

Pentachlorophenol

L/1.**

1.9

9.8

Naphthalene

L/50.**

L/50.**

L/50.**

Key

L/ indicates "less than"

* insufficient sample for additional analyses

** insufficient sample to achieve desired limits of detection

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:bg



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Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



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PAGE NO 3

Pacific Wood Treating

LABORATORY NO. 85070

APPENDIX A

Surrogate Recovery Quality Control Report

Listed below are surrogate (chemically similar) compounds utilized in the analysis of organic compounds. The surrogates are added to every sample prior to extraction to monitor for matrix effects and sample processing errors. The control limits represent the 95% confidence interval established in our laboratory through repetitive analysis of these sample types.

parts per billion (ug/L)

<u>Sample No.</u>	<u>Surrogate Compound</u>	<u>Spike Level</u>	<u>Spike Found</u>	<u>% Recovery</u>	<u>Control Limit</u>
1	tetrachlorophenol	1.00	0.632	63.2	34-135
2	"	1.00	1.18	118.	34-135
3	"	1.00	0.345	34.5	34-135
4	"	1.00	1.08	108.	34-135
5	"	1.00	1.29	129.	34-135
6	"	25.0	26.5	106.	34-135
7	"	25.0	28.7	115.	34-135
Blank	"	25.0	46.2	185.	34-135
Blank	"	1.0	0.979	97.9	34-135



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Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

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Pacific Wood Treating

PAGE NO. 4

LABORATORY NO. 85070

APPENDIX B

Methods of Analysis and Lower Limits of Detection

<u>Analysis</u>	<u>Method</u>	<u>LLD</u>
Pentachlorophenol	EPA(1) 604	0.01 ug/L*
Naphthalene	EPA(1) 610	1. ug/L*
pH	EPA(2) 150.1	+/- 0.1 units
Specific Conductance	EPA(2) 120.1	N/A
Arsenic	EPA(2) 206.3	0.005 mg/L
Barium	EPA(2) 278.1	0.10 mg/L
Cadmium	EPA(2) 213.1	0.002 mg/L
Chromium	EPA(2) 218.1	0.01 mg/L
Lead	EPA(2) 239.2	0.010 mg/L
Mercury	EPA(2) 245.1	0.001 mg/L
Selenium	EPA(2) 270.3	0.005 mg/L
Silver	EPA(2) 272.1	0.01 mg/L
Copper	EPA(2) 220.1	0.005 mg/L
Total Phenols	EPA(2) 420.2	0.005 mg/L

*Insufficient sample size available to achieve these limits on sample nos. 5-7.

References:

EPA(1) = Methods for Organic Chemical Analysis of Municipal and Industrial Wastes, USEPA, 1982.

EPA(2) = Methods for Chemical Analysis of Water and Wastes, USEPA, 1979.



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